

**\$6.00**

Commonwealth of Massachusetts

TOWN OF HINGHAM

BOARD OF HEALTH

SUPPLEMENTARY RULES AND REGULATIONS FOR THE  
DISPOSAL OF SANITARY SEWAGE

I. AUTHORITY TO PROMULGATE

In accordance with applicable provisions of the State Environmental Code and under the authority of Chapter 111, Section 31 of the General Laws and any other powers enabling the Board of Health of Hingham to adopt regulations, these rules and regulations as a supplement to Title 5 of the State Environmental Code of the Commonwealth of Massachusetts from time to time in force and effect are hereby adapted and previous Supplementary Rules and Regulations are hereby amended and restated in their entirety effective May 10, 1990 pursuant to a unanimous vote of the Board.

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## II. DEFINITIONS

Capitalized terms shall have the meanings defined herein or in Title 5 of the State Environmental Code. Other words used in these Regulations shall have their normal meaning.

1. Abutter: Any record owner of a Lot any portion of which is located within two hundred and fifty (250) feet of any portion of the Applicant's Lot.
2. Applicant: The owner of the Lot together with any other person authorized by the owner who applies for a Disposal Works Construction Permit.
3. Bedroom: A room in a Structure whose primary intended use is that of sleeping quarters.
4. Board: The Hingham Board of Health.
5. Building: Any Structure typically supported by a foundation used or intended for supporting or sheltering a use or occupancy.
6. Foundation Wall: A wall below the floor nearest grade serving as a support for a wall, pier, column or other structural part of a Building.
7. Cellar Wall: The lowermost portion of a Structure that supports that Structure whether a wall, footing, foundation or column.
8. Complete: An application for a Disposal Works Construction Permit is Complete when all the requirements of Sections IV and VI (if applicable) hereof have been met.
9. Designing Engineer: A Registered Professional Engineer responsible for the design of a particular Sewage Disposal System or Plant.
10. Dewatering: The removal or disturbance of Groundwater in any area of a Lot such that it is likely in the judgement of the Board that the Groundwater at a percolation test site will be lower or the rate of percolation more rapid than it would have been had no such removal or disturbance occurred.
11. Direct Abutter: Any record owner of a Lot any portion of which is contiguous to any portion of Applicant's Lot whether or not separated from the Applicant's Lot by a street.
12. Disposal Works Construction Permit (DWCP) (herein sometimes "Permit" or "Plant Permit"): That Permit required for the construction, installation, alteration, Repair or for any other work on a Sewage Disposal System or Plant.
13. Drain: Any conduit used for the conveyance of water including, but not limited to: curtain Drain, French Drains, under Drains and leaching catch basins.

14. Expansion of Use: Anything which increases the design flow of the Structure
- II DEFINITIONS (continued)
15. Failed Sewage Disposal System: A Sewage Disposal System that endangers the health and safety of the public by the discharge or threatened discharge of sewage onto the surface of the ground or into any gutter, street, roadway, public place, onto another's property or into any structure.
16. Groundwater: Any water that is observed in a deep observation hole whether it weeps, flows or seeps.
17. Guidelines: The Commonwealth of Massachusetts Department of Environmental Quality Engineering, Division of Water Pollution Control, Guidelines for the Design, Construction, Operation and Maintenance of Small Sewage Treatment Facilities with Land Disposal, Second Draft, January 1988.
18. Leaching Area: The Primary and reserve area on a Lot to be used for a Leaching Facility.
19. Leaching Facility: An approved structure incident to a subsurface Sewage Disposal System or Plant used for the dispersion of sewage effluent into the soil. These include leaching pits, galleries, chambers, trenches and fields. It also includes existing cesspools.
20. Licensed Disposal Works Installer: Any person who installs, alters, constructs, or Repairs a Sewage Disposal System who is licensed by the Hingham Health Department.
21. Lot: An area of land in one ownership, with definite boundaries.
22. Maximum Groundwater Elevation: The elevation determined by the Board to be the level at which Groundwater is or has been closest to the surface of a Lot. Among the evidence the Board may consider in determining Maximum Groundwater Elevation are actual observed Groundwater Elevations occurring during the Wettest Period, indirect evidence such as oxide layers or soil mottling and historical Maximum Groundwater Elevation data in the vicinity of the Leaching Area. In the case of a Failed Sewage Disposal System, the Board may consider evidence of actual observed Groundwater occurring at other than the Wettest Period. In years of abnormally small amounts of precipitation the Board may make uniform upward adjustments to observed Groundwater Elevations to account for an abnormally low Groundwater table.
23. New Construction or New Sewage Disposal System: The construction or proposed construction of a Structure or of a Sewage Disposal System on a Lot on which previously there had been no such system or Structure in existence.

24. Plant: A system or facility (other than a Sewage Disposal System as defined herein) to be used for treating, neutralizing, stabilizing or disposing of wastewater from any Structure and which is not part of or connected to a system of sanitary sewers under
- II DEFINITIONS (continued)

the jurisdiction of the Commissioners of the North Sewer District. Included without limitation in this definition are: sewers serving such Plant, wastewater pumping stations, wastewater treatment works, all wastewater treatment operations, sludge treatment and management, disinfection, advanced waste treatment, subsurface disposal and land treatment, wastewater recycling and reuse, and monitoring wells and systems relating thereto.

25. Plant Operations Permit: A Permit issued by the Board for the operation of a Plant.
26. Plant Permit: A Disposal Works Construction Permit issued for the construction, installation, alteration, Repair or any other work on a Plant.
27. Protected Water Bodies: Triphammer Pond, Cushing Pond, and all those portions of the Tower Brook, Weir River, Crooked Meadow River, Eel River, Plymouth River and Fulling Mill River as shall be located south of Pleasant Street.
28. Repair: Any work on an existing Sewage Disposal System or Plant (including the construction of a Complete replacement system) on a Lot.
29. Regulations: The Hingham Board of Health's Supplementary Rules and Regulations for the Disposal of Sanitary Sewage.
30. Sewage: The water-carried human or animal wastes from any Structure together with such Groundwater infiltration and surface water as may be present.
31. Sewage Disposal System: A subsurface system consisting of any or all of a septic tank, Leaching Facility (including reserve area) and the piping starting at the exterior foundation wall of the Structure connecting all of the various parts of the system, that is designed and constructed for the purpose of disposing of the sanitary Sewage on a Lot generated by the Structure on that Lot.
32. Structure: Anything constructed or erected at a fixed location on the ground typically supported by a Foundation Wall and supported by a Foundation Wall to give support or provide shelter for any common use and occupancy.
33. Surface Water Supply: Accord Pond, Fulling Mill Pond, Accord Brook, and the Old Swamp River.
34. Treatment Plant Building: That part of a Plant which houses the devices or facilities which are used to treat, neutralize, stabilize or disinfect Sewage.

35. Wastewater: Sewage, industrial waste, other wastes or any combination of the three (3).

## II DEFINITIONS (continued)

36. Wettest Period: That period of time during each calendar year deemed by the Board in its reasonable discretion to be the time when the Groundwater table is closest to the surface of the ground.

## III. REQUIREMENTS FOR A DISPOSAL WORKS CONSTRUCTION PERMIT

A Disposal Works Construction Permit must be sought and obtained:

1. When the construction of a New Disposal System or Plant is proposed, or
2. When the Repair of a Sewage Disposal System or Plant is proposed, or
3. When the Executive Health Officer or the Board orders the Repair of a Failed Sewage Disposal System, or
4. When the potential occupancy capacity of a existing Structure is increased, or
5. When a greater volume of sewage is proposed for the existing Sewage Disposal System or Plant than the system or Plant was originally designed to accept.

## IV. APPLICATION REQUIREMENTS

To be deemed Complete, the application for a Disposal Works Construction Permit must contain the following information as appropriate:

1. The application for a Disposal Works Construction Permit must be filled out and signed by the record owner of the Lot. If application is made by someone other than the owner, the application shall be signed by both the record owner of the Lot and the Applicant.
2. An application fee must be paid at the time of submission of the application for a Disposal Works Construction Permit. This fee is non-refundable.
3. In the case of the construction of a New Sewage Disposal System, Subdivision, or Plant, the Applicant shall also deposit with the Health Department at the time of application the sum set forth in the Board's Schedule of Fees under "Sewage Disposal Permit Deposit" or Plant Permit Deposit", as applicable, in the form of a certified or bank check made payable to the "Town of Hingham" to be held by the Town Treasurer and from which fees and other expenses shall be deducted which may be incurred by

the Board of Health for the hiring of consultants for the purpose of witnessing percolation tests, Groundwater Elevations and other soil and site conditions.

IV. APPLICATION REQUIREMENTS (continued)

4. A list of Direct Abutters of Applicant's Lot and evidence satisfactory to the Board that notice that an application has been made for a Disposal Works Construction Permit has been given to said Abutters by certified mail, return receipt requested, shall accompany the application.
5. If a wetlands line is located on the plan which accompanies the application, or if the Board or the Executive Health Officer questions the possible presence of wetlands on the Lot or within 200 feet of a Sewage Disposal System or Plant, confirmation in writing by the Conservation Commission that:
  - a) A final Order of Conditions or final Negative Determination has been obtained and all appeals periods lapsed in accordance with the applicable provisions of chapter 131 Section 40 of the Massachusetts General Laws, and
  - b) A final Order of conditions or final Negative Determination has been obtained and all appeals periods lapsed in accordance with the applicable provisions of the Wetlands Protection By-Laws of the Town of Hingham promulgated pursuant to Chapter 40 of the Massachusetts General Laws.
6. Evidence satisfactory to the Board showing that the Lot on which the New Sewage Disposal System or Plant will be located has a supply of potable water sufficient in quantity with adequate pressure and a quality that has been determined to not endanger the health of any potential user. If the supply of water is from a well to be drilled on the Lot, it must be in existence, drilled and tested by a laboratory approved by the Board and licensed by the Department of Environmental Protection. The water tested must meet the Commonwealth of Massachusetts Minimum Drinking Water Standards. A well drillers log and report shall also be submitted. If the potential water supply is other than a well on the Lot, then a letter of commitment from the person or utility that will provide the water service must accompany the application.
7. If a Lot on which a New Sewage Disposal System or Plant is proposed to be built is part of a subdivision, evidence that the subdivision plan has been recorded in the Plymouth County Registry of Deeds or filed with the recorder in the Plymouth County Land court must be submitted.
8. In connection with applications for Disposal Works Construction Permit for a Sewage Disposal System where the Board reasonably estimates that the maximum daily sewage flow for the project exceeds seven thousand five hundred (7500) gallons of sewage per day, the Board in its reasonable discretion may require the Applicant to file

an application for a Plant Permit. If, after reviewing both the application for a Disposal Works Construction Permit for a Sewage Disposal System and for a Plant, the Board determines in its reasonable judgement that the environment and the health and well-being of the residents of the Town would be better protected by the utilization of a Plant rather than a Sewage Disposal System, the Board can decline to grant the application

IV. APPLICATION REQUIREMENTS (continued)

for a Disposal Works Construction Permit for the Sewage Disposal System.

9. Percolation test results, soil observations, and findings as to the Maximum Groundwater Elevations are required to accompany the application. At least two percolation tests must be performed in the primary Leaching Area and two percolation tests performed in the reserve Leaching Area. Four Deep Observation Holes (two in the primary area and two in the reserve area) must also be dug to a minimum depth of ten feet or six feet below the bottom of the proposed Leaching Area, whichever is deeper, unless this depth is unattainable because of bedrock. If a seepage pit is proposed as the Leaching Facility on a Lot, one percolation test and an observation hole is required in the location of each proposed pit and also in the reserve area for each pit. All percolation tests and Groundwater elevation observation tests must be witnessed by the Executive Health Officer or a representative authorized to act in his behalf. Dewatering of soil to perform a percolation test is not permitted.

All percolation test results and Groundwater elevation observations shall be considered valid for two years if accompanied by a plan submitted by the Designing Engineer conducting the tests which plan shall show the Lot lines, Groundwater elevations, the accurate location of test pits on the Lot, ties from the test pits to the nearest permanent monument, results of percolation tests, soil logs of deep test pits and the engineer's opinion based on conditions observed at the time of the testing.

10. **Six (6)** sets of plans submitted by a Registered Professional Engineer, signed, dated and certified with the stamp of the person responsible for the design. The plans must be drawn to scale *not less than* 1" = 20' and contain the following information:
  - a) Name and address of owner, Lot number, assessor's Lot number.
  - b) Lot lines and dimensions established by a Professional Land surveyor.
  - c) Location of street, Structure, garage, out-buildings, driveway.
  - d) Accurate perpendicular distance from street and both sidelines to building.
  - e) Proposed elevation of top of foundation, cellar floor, garage floor.
  - f) Existing proposed street centerline grade.



- g) Location and dimensions of Sewage Disposal System and expansion area.
- h) Location and results of all soil observation pits and percolation tests conducted by the Designing Engineer.

#### IV. APPLICATION REQUIREMENTS (continued)

- i) Location and log of deep observation holes and the Maximum Groundwater Elevation in the area of the primary reserve areas. Soil logs shall be professionally and neatly presented on typical soil log forms which may be either bound in booklet form or presented on plan sheets with the project plans. When presented with the project plans, the logs shall be appropriately referenced on the plan index sheets and a common base elevation above mean Seal Level shall be shown for each line of soil logs. The soil surface and strata for each soil log will indicate the relative elevation above the common base elevation. Each soil log shall contain the following information: project name, Lot number, owner, soil technician, supervising Registered Professional Engineer, data for each change in soil description and stratus depth for each change in soil in accordance with requirements set forth above, depth and elevation of Groundwater, rock, ledge, bottom of test hole, test hole number, percolation rate, coordinates to the nearest 0.10 feet tied by transit and tape to permanent monumentation, the name of the witnessing agent representing the Board of Health and the elevation above Mean Sea Level of the ground surface.
- j) Elevations of ground surface at test pit, bottom of test pit and of any rock formations or other impervious strata, observed Groundwater encountered, and percolation test.
- k) Profile of the Sewage Disposal System, including invert elevations at building Drain, inlet and outlet from septic tank, inlet and outlet from distribution box, invert of leach lines and bottom elevation of leaching Area. A horizontal base line with a designated elevation located below the bottom of the test pits must be carried through the profile cross-section and test data sections.
- l) Cross-section of Sewage Disposal System showing all construction details.
- m) Existing and proposed grading at building corners, front Lot corners Leaching Area and at such other areas where the existing ground contours are being changed. All proposed and existing contours shall be shown at two-foot intervals with flow arrows.
- n) Design calculations.
- o) Location of all Structures within 200 feet of a Plant.

- p) Location of all surface and subsurface Drains within one hundred (100) feet of the Sewage Disposal System or of the Plant.
- q) Location of water courses, streams, brooks, ponds, lakes, swamps, marshes, wetlands as defined in Chapter 131 Section 40 of the Massachusetts General

#### IV. APPLICATION REQUIREMENTS (continued)

Laws or the Town of Hingham's Wetlands Protection By-Law, flood plain and any mean high tidal water within two hundred (200) feet of the Sewage Disposal System.

- r) Location of existing wells, including any wells owned by the Massachusetts American Water company and any suction lines and surface Water Supplies within five hundred (500) feet of the Sewage Disposal System or Plant. Location of any Protected Water Bodies within three hundred fifty (350) feet of the Sewage Disposal System or Plant. Any water service line on the Lot shall also be given.
  - s) The location of existing Sewage Disposal Systems on Lots Directly Abutting Applicant's Lot.
  - t) A bench mark reference within one hundred fifty (150) feet of the Lot shall be permanently established.
  - u) A north arrow.
  - v) Location of all underground utilities, including electric, telephone, gas, cable TV, fuel oil lines and underground tanks.
  - w) All easements on the Lot.
  - x) Any and all other data required by the Guidelines, Title 5 of the State Environmental code or the Town of Hingham Board of Health. If a plan has been submitted to the Board and a change is later made, such change or modification shall be made by revision change and dated so that it can be easily distinguished from the original plan.
11. If, upon review of the foregoing, the Executive Health Officer or the Board determines that further information is needed before the application will be deemed Complete, then he may require additional testing to further identify the soil or Groundwater elevation or determine its extent; or to locate, test, and evaluate well water proposed for domestic use. Such additional testing as shall be required may be sieve analysis, hydrometer analysis, on site permeability tests and Groundwater observation wells. The Executive

Health Officer or the Board in its discretion may also require additional information and studies to be performed at the site, or adjacent to the site as related thereto such as: hydrological studies and calculations for the mean annual, ten-year, and 100-year storm incident for which the high water determination shall be shown on the submitted plans and the corresponding hydrological calculations submitted; environmental studies; water quality studies and analyses; and other studies and analyses related to the designs and performance of the Sewage Disposal System or Plan (herein collectively called "Additional Studies").

IV. APPLICATION REQUIREMENTS (continued)

12. Should the Applicant's initial deposit required under paragraph 3 of this Section be insufficient to pay the consultants' fees to witness tests or to review the Additional Studies required by the Board, the board in its discretion may require additional amounts as may be necessary: An initial deposit as set by the Board of Health in its fee structure, but in no case to exceed five thousand dollars (\$5000.00) per Lot for a Sewage Disposal System (SDS); an initial deposit as set by the Board of Health in its fee structure, but in no case to exceed forty-five thousand dollars (\$45,000.00) per Subdivision; an initial deposit as set by the Board of Health in its fee structure, but in no case to exceed twenty-five thousand dollars (\$25,000.00) per Lot for a Plant to be paid by the Applicant, for the consultant review before any decision is issued. After all Board consultant fees and expenses have been accounted for and paid, the Board will return any unused deposit balance plus accrued interest to the Applicant. A final report of said account will be made available to the Applicant if so requested.
13. Applicant may appeal to the board of Selectmen of the Town the choice of a consultant made by the Board on either of two grounds: a) that a the consultant selected has a conflict of interest or, b) does not possess the minimum required qualifications to perform the required work. The minimum qualifications shall consist either of an educational degree in or related to the field at issue or three or more years of practice in the field at issue or a related field.

In the event that no decision is made by the Board of Selectmen within one month following the filing of the appeal, the choice made by the Board will stand.

14. The application shall not be deemed Complete until certified as such on the face of the application by the Executive Health Officer whose determination shall be conclusive absent a finding of gross and manifest error by the Board of Health after a written request for such a determination by the Applicant.
15. When the Board of Health approves an application with conditions and where said conditions must be Completed prior to the issuance of a Disposal Works Construction Permit, the Board shall establish a deadline by when the conditions must be Completed. Failure by the Applicant to Complete the conditions established by the Board in the time allotted may result in the denial and/or revocation of the Board's approval.

## V. PERMIT RESTRICTIONS

A Disposal Works Construction Permit is issued to the Licensed Disposal Works Installer.

A Permit will become void automatically and without further action or notice if the work under the Permit is not Completed within twelve months from the date of issue of such Permit. Further, any Permit issued can be revoked by the Board of Health after notice to the Licensed Disposal Works Installer (DWI) if the conditions set forth in the application have changed prior to or during work under the Permit. Permits may be extended upon written request in the sole discretion of the Board.

## VI. DESIGN REQUIREMENTS FOR SEWAGE DISPOSAL SYSTEMS AND PLANTS

1. The determination of the minimum daily sewage flow to be used for the design of Sewage Disposal Systems shall be in accordance with Title 5 310 CMR 15.203.
2. A Sewage Disposal System (SDS) or Plant must be located upon the same Lot as the Structure to be served by it.
3. All components of the Sewage Disposal System shall be located no greater than 200 feet from the Structure to be served by it provided, however, that in non-residential applications, the Board, upon specific written request of the Applicant together with the furnishing of such engineering and other proof that the location of the Sewage Disposal System farther than 200 feet from the Structure to be served will not result in increased risk of malfunction of the system, early obsolescence of the system or environmental degradation, may in its discretion waive the 200-foot limitation.
4. No Sewage Disposal System may be located on the same Lot as a private well intended as the water supply for the Structure if the square footage of the Lot is less than 40,000 square feet.
5. No Sewage Disposal System or Plant shall be constructed within one hundred (100) feet of the normal annual high water level of any great pond, brook, river, swamp, or of a wetland as defined by Massachusetts General Law Chapter 131, Section 40 or the Town of Hingham Wetlands Protection By-Law, or of any mean spring tidal level in coastal areas all as reasonably determined by the Board.
6. No Sewage Disposal System or Plant shall be constructed within four hundred (400) feet of a public water supply well or wellfield, as defined in Massachusetts drinking water regulation, 310 CMR 22.02 or surface water supply as defined herein or within two-hundred and fifty (250) feet of any private potable well or one hundred (100) feet of any private nonpotable well or tributary to a Surface Water Supply including surface and subsurface Drain or within one hundred and seventy-five (175) feet of any Protected Water body.
7. No Leaching Facility shall be constructed within:

- a) Twenty-five (25) feet of any surface or subsurface Drain when the Drain elevation is higher than the proposed Leaching Facility.
- b) Fifty (50) feet of any surface or subsurface Drain when the Drain elevation is equal to or lower in elevation than the proposed Leaching Facility.
- c) One hundred (100) feet of any surface or subsurface Drain which discharges into a Protected Water Body.
- d) Two hundred fifty (250) feet of any surface or subsurface Drain which discharges into a surface Water Supply or tributary thereto.

VI. DESIGN REQUIREMENTS FOR SEWAGE DISPOSAL SYSTEMS OR PLANTS  
(continued)

- 8. No Sewage Disposal System (SDS) serving new construction or Expansion of Use shall be designed to discharge more than 110 gallons of design flow per day per 12,500 sq. ft. in Lot area.
- 9. Leaching Facilities shall not be constructed in soils where the Maximum Groundwater Elevation or mean high tidal water is less than five (5) feet below the bottom of the Leaching Facility except that if the percolation rate of the soil in the Leaching Area is between two (2) and five (5) minutes per inch, at least six (6) feet of naturally occurring permeable material must exist between the bottom of the leaching Facility and the Maximum Groundwater Elevation and/or mean spring tidal water.
- 10. When more than one leaching trench is installed, the spacing between leaching pipes shall not be less than eight (8) feet on center or six (6) feet from sidewall to sidewall, whichever is greater. The area between the trenches shall not be used for part of the reserve area.
- 11. A reserve Leaching Area sufficient to replace the capacity of the primary Leaching Area must be provided. The reserve area must meet all the same requirements as the primary area.
- 12. Construction of Leaching Facilities in clean granular fill is permissible only:
  - a) Where the impervious material can be excavated to pervious material (determined by a percolation test) and be replaced with clean fill AND where at least five (5) feet of the underlying naturally occurring pervious strata is above the Maximum Groundwater Elevation, except that at least six (6) feet of the underlying naturally occurring pervious strata must be above the Maximum Groundwater Elevation if the percolation rate of the pervious material is between two (2) and five (5) minutes per inch, AND
  - b) Where the fill has been either mechanically or hydraulically compacted or has been allowed to settle for a minimum period of twelve (12) months, AND

- c) The excavation has been inspected by the Designing Engineer prior to the placement of the fill and he has certified to the Board that the provisions of this paragraph have been complied with. The reserve area as well as the primary Leaching Area shall be prepared in the same manner and at the same time.
13. No reduction in the design of the Leaching Area shall be permitted because of proposed use of a Sewage Disposal System only during the summer. Separate Leaching Facilities are not permitted for gray water discharges from the Structure.

**VI. DESIGN REQUIREMENTS FOR SEWAGE DISPOSAL SYSTEMS OR PLANTS**  
(Continued)

14. In all New Construction the bottom of the cellar floor must be at least eighteen (18) inches above the Maximum Groundwater Elevation. The driveway serving a Structure with a garage under or attached to the Structure must be constructed so that no surface water from the street Drains into the garage or the Structure.
15. The proposed grading of any Lot shall divert surface water away from the Structure so as to prevent standing or trapped water detrimental to the Structure, Sewage Disposal system or Plant or abutting property. Conditions which would result in prolonged standing of water within the immediate vicinity of a Structure or Sewage Disposal system or Plant in any season is not acceptable and the Board must be satisfied that such conditions will not exist.
16. To facilitate periodic inspection and maintenance of septic tanks, at least one manhole shall be required to be brought up to within twelve (12) inches of finish grade, or up to finish grade if beneath a paved surface.
17. The stone used in a leaching Area shall consist of washed crushed stone or washed gravel ranging from 3/4 of an inch to 1 and 1/2 inches in size and free from iron, fines, and dust. It shall extend the full width of the trench or bed, shall not be less than either (8) inches deep beneath the bottom of the distribution lines, and shall extend at least to the top of the distribution pipes. The stone shall be covered with at least a two (2) -to- four (4) inch layer of washed crushed stone or washed gravel ranging from 1/8 of an inch to 1/2 of an inch in size and free from iron, fines and dust.
18. Tees and Wyes will not be permitted in the Leaching Area.
19. All piping which constitutes a part of the Sewage Disposal system or connects a Structure to a public sewer system shall consist of a minimum 4-inch cast iron or schedule 40 PVC pipe or other material acceptable to the Executive Health Officer or the Board. The minimum pipe size allowed for a Plant shall be six (6) inches in diameter and of a material acceptable to the Executive Health Officer of the Board.

20. Septic tanks shall be constructed of reinforced concrete. Tanks containing built-in concrete sanitary tees shall be allowed. Concrete baffles are not allowed. Septic tanks shall have a liquid capacity of no less than fifteen hundred (1500) gallons.
21. Any private well to be used as a drinking water supply must be at least twenty-five (25) feet from a property line, be a drilled well with at least a 6-inch casing, and have its bottom set at least two (2) feet into bedrock. See also Section IV (6).
22. A New Sewage Disposal System or Plant must be constructed prior to the commencement of the construction of the Structure it is to serve. In the case of a Sewage Disposal system upon special written request of Applicant together with the furnishings of such proof of unremarkable subsurface soil conditions throughout the

#### VI. DESIGN REQUIREMENTS FOR SEWAGE DISPOSAL SYSTEMS OR PLANTS

(Continued)

entire leaching Area as the Board in its discretion deems adequate, the Board or the Executive Health Officer may waive such requirement.

#### VII. WASTEWATER TREATMENT PLANTS

##### 1. Permit Requirements

No Plant shall be located, constructed, installed, operated, altered or Repaired until a Plant Permit for such Plant shall have been issued by the Board. No construction of any Structure which relies upon such a Plant shall be commenced until a Plant Permit shall have been issued by the Board.

##### 2. Application Requirements

A. To be deemed to be Complete, an application for a Plant Permit for Plants of any size must contain all the information required by Section IV of these Regulations, Title 5 of the State Environmental Code and the Guidelines (which are incorporated herein by reference) as well as the information in this Section. For situations not covered by these three (3), the best engineering practice as reasonably determined by the Board shall govern.

B. The required testing set out in the Guidelines in Section II Site Evaluation and Siting Criteria shall be modified as follows:

1. At least four (4) percolation tests in the primary Leaching Area and four (4) percolation tests in the reserve Leaching Area are required;
2. Eight (8) Deep Observation Holes (four [4] in the primary area and four [4] in the reserve area) must also be dug to a minimum depth of ten (10) feet or six (6) feet below the bottom of the proposed Leaching Area, whichever is deeper, unless this depth is unattainable because of bedrock;
3. There shall be at least one (1) soil boring in the primary Leaching Area and one (1)

soil boring in the reserve Leaching Area;

4. If a seepage pit is proposed as the Leaching Facility on a Lot, one (1) percolation test, one (1) observation hole and one (1) soil boring is required in the location of each proposed pit and also in the reserve area for each pit;

5. All percolation test, Deep Observation Holes and Groundwater elevation tests must be witnessed by the Executive Health Officer or a representative authorized to act in his behalf;

6. Dewatering of soil to perform a percolation test is not permitted.

## VII. WASTEWATER TREATMENT PLANTS (continued)

### 3. Permit Restrictions

No Plant Permit will be granted for a Plant that serves more than one (1) Lot nor which has a capacity for treating a sewage flow greater than that which could have been disposed of on the Lot proposed to be serviced by the Plant utilizing a Sewage Disposal System complying in all respects with Section I through IV of these Regulations.

A Plant Permit is issued in the name of the record owner of the Lot upon which the Plant is to be built or Repaired after the Applicant has proved to the reasonable satisfaction of the Board that the Applicant has a continuing financial capacity to construct, operate and maintain the Plant. Such Plant Permit is effective only so long as the Lot remains in the name of the owner to whom the Plant Permit was issued and is not transferable without the approval of the Board. A Plant Permit will become void automatically and without further notice or action if title to the Lot is transferred to a person or entity other than the Applicant or if the work under the Plant Permit is not Completed within twenty-four (24) months from the date of issue of such Plant Permit. Further, any Plant Permit issued can be revoked by the Board after notice to the Applicant if the conditions set forth in the application have changed prior to or during work under the Plant Permit.

A Plant Operations Permit is issued in the name of the record owner of the Lot on which the Plant is constructed after the owner has proven to the reasonable satisfaction of the Board his capabilities, financial and otherwise, to maintain and operate the Plant. The Plant Operations Permit is not transferable without the approval of the Board.

A Plant Operations Permit shall run for one (1) year with the yearly expiration date of May 31. Prior to May 1 of each year, the Applicant must file an application for renewal of his Plant Operations Permit on a form specified by the Board together with the prescribed filing fee. Accompanying each application must be the annual financial report in form and substance as specified in the Guidelines. Prior to May 15 of each year, the Executive Health Officer shall review the application together with the performance of the Applicant for the previous year and make a recommendation to the Board as to whether the Plant Operations Permit should be



renewed, not renewed, or renewed with conditions. If the Executive Health Officer shall recommend that the Plant Operations Permit not be renewed or be renewed with conditions, he shall transmit a copy of such report to the Applicant and shall schedule a timely hearing before the Board which hearing shall comply with the provision of 310 CMR 11.

4. Additional Design Requirements for the Plant

All requirements of Section VI of these Regulations apply unless modified as follows:

A. The determination of the minimum daily sewage flow to be used for the design of a Plant shall be that set out in the Guidelines.

VII. WASTEWATER TREATMENT PLANTS (continued)

B. No discharge from a Plant will be permitted into any great pond, stream, brook, river, swamp or wetland as defined by Massachusetts General Laws Chapter 131, Section 40 or by the Town of Hingham Wetlands Protection By-Law, or into any coastal waters.

C. No septic tank shall be constructed further than fifty (50) feet from the Treatment Plant Building.

D. No Plant shall be constructed within one hundred (100) feet of a property boundary of the Lot on which it is proposed to be built nor within one hundred (100) feet of any Structure (with the exception of the Treatment Plant Building itself).

E. No Leaching Facility shall be constructed in soils where the Maximum Groundwater Elevation or mean high tidal water is less than five (5) feet when mounded below the bottom of the Leaching Facility, except that if the percolation rate of the soil in the leaching Area is between two (2) and five (5) minutes per inch, at least six (6) feet of naturally occurring permeable material must exist between the bottom of the Leaching Facility and the mounded Maximum Groundwater Elevation and/or mean spring tidal water.

F. No discharge into sand beds is permitted under these Regulations.

G. Disinfection of the Plant effluent by ultraviolet irradiation or ozonation shall be the only means permitted.

5. Sludge Removal

All sludge must be disposed of off-site. The removal of the sludge must be accomplished during normal business hours on Monday through Friday except in emergency situations. The Board will review the Applicant's plan for sludge removal, including the method of transport, the route to be used, the frequency of removal, destination and license status of the proposed

sludge hauler. Each time that sludge is removed from the site, a copy of the receipt must be provided by the Plant Operations Permit holder to the Health Department Office.

## 6. Spare Parts

The Applicant must provide the Board with a list of major parts of the Plant and their estimated useful life. The Applicant must store on the premises a duplicate of each part having an estimated useful life of less than five (5) years. The Board will review this list and determine whether the estimated useful life of each part is acceptable and will then cause an inspection to be made prior to the issuance of the Plant Operations Permit to see that the duplicates are stored in the Treatment Plant Building. As part of the annual financial report required by the Guidelines, the holder of the Plant Operations Permit must itemize the expenses for the operation, maintenance and repair of the Plant and specifically detail what parts were replaced during the year. Replacements for the spare parts used must be acquired as soon as possible. The spare parts list will be reviewed and expanded at the end of the first five (5) years of operation of the Permit.

## VII. WASTEWATER TREATMENT PLANTS (continued)

### 7. Monitoring Requirements

#### A. Treatment Plant Influent

An Influent Monitoring Program will be developed to the reasonable satisfaction of the Board on a case by case basis.

#### B. Treatment Plant Effluent

The effluent from the Plant shall be sampled and tested by a laboratory approved by the Board and licensed by the Department of Environmental Protection as follows:

Daily: Flow, pH and Specific Conductances.

Weekly: 5-Day Biochemical Oxygen Demand (B.O.D.), Total Suspended Solids (T.T.S.), Coliform Bacteria and Fecal Coliform Bacteria.

Monthly: Total Kjeldahl Nitrogen, Ammonia Nitrogen, Nitrate Nitrogen, Sodium and total dissolved solids.

Semi-annually: Oil and grease, and Volatile Organic Compounds (USEPA Procedure # 624 to be utilized).

Annually: Arsenic, barium, cadmium, chromium, fluoride, lead, copper, zinc, mercury, total trihalomethanes, selenium and silver.

Every five (5) years: Pesticides and radioactivity.

All samples and analyses, except for the daily and weekly frequency tests which will commence at the time of Plant start-up, shall be performed initially at sixty (60) days after Plant start-up and then at the stated frequency thereafter. All sampling reports shall be delivered to the Health Department Office within seven (7) days of receipt by the Plant Operations Permit holder. The Board may add to the testing parameters or frequency if it has reason to believe that the discharge limitations for Class I and Class II Groundwater contained in 314 Code of Massachusetts Regulations 6.06 are not being met.

#### C. Groundwater Monitoring Wells

The Applicant must install, at a minimum, one (1) cluster of three (3) monitoring wells up-gradient from the Plant and two (2) clusters of three (3) monitoring wells down-gradient from the Plant. Screen depths for the cluster wells shall be set at elevations such that at least two (2) screen depths will yield samples at the time of the lowest Groundwater elevation. The locations of the monitoring wells shall be approved by the Board. Monitoring wells shall be installed and in place prior to issuance of the Certificate of Compliance and the Plant Operations Permit. Sampling shall be performed in accordance with Guidelines with the VII. WASTEWATER TREATMENT PLANTS (continued)

Groundwater elevations being measured to the nearest tenth of a foot. On a annual basis, the Board, either on its own motion or upon written request from the holder of the Plant Operations Permit, may review the sampling frequency and the test parameters and may make such modification to either as it deems to be appropriate.

#### D. Surface Sampling

The Board may, if there is the presence of a Surface Water Supply on or adjacent to the Lot on which the Plant is proposed, require that periodic sampling and testing of the Surface Water Supply be performed by the Plant Operations Permit holder.

### 8. Financial Responsibility

As part of the application for a Disposal Works Construction Permit, an Applicant shall submit a detailed estimate of the cost of construction the Plant, the estimated useful life of each major component of the Plan, the estimated annual maintenance cost of the Plant, and the estimated annual operating cost of the Plant.

Based on this date, as well as on other reasonable estimates made by the Board, the Board shall establish a system of financial responsibility for the Plant pursuant to which the Applicant shall, prior to the commencement of construction under the Plant Permit, make an initial deposit of funds in a specially segregated account for such purpose, equal to the Board's estimate of the annual cost of operation and maintenance of the plant for the current year plus an amount equal to the Board's reasonable estimate of a yearly replacement reserve. Any funds expended during the year shall be accounted for in the annual financial report required by May 1 of each year and must be shown to have been replaced in this account by the same date.

Also, prior to the commencement of operation of the Plant, the owner of the Lot on which it is located and the owner of all premises served by the Plant shall record in the appropriate Registry of Deeds a covenant and restriction in form and substance satisfactorily to the Board binding and enforceable against the premises and the owner from time to time thereof, to maintain the Plant. The covenant and restriction shall run in favor of and be enforceable by the Town of Hingham and shall be superior in title to any liens (including mortgages, labor and mechanics liens and the like) on or interests in the premises, except for the lien for real estate taxes.

The covenant and restriction shall be enforceable against any or all of: The operation and maintenance fund; the premises; or the owner from time to time thereof, as the Town may elect in its discretion.

#### VIII. AS-BUILT PLAN REQUIREMENTS

As-Built Certification: The Designing Engineer for the Sewage Disposal System or Plant shall make such inspections required by the Board and shall determine that the Sewage Disposal System or Plant has been constructed in accordance with the approved plans, the provisions of Title 5 of the State Environmental Code and the Rules and Regulations of the Hingham Board of Health and the Guidelines, if applicable, and he shall make certification to the Board on the form required by the Board, a copy of which is attached to these Regulations, within two (2) weeks from the completion of construction. Further, the Designing Engineer shall provide, within two (2) weeks of completion of construction, two (2) copies of the "as-built" plans, scale 1" = 20'.

Two "as-built" plans to scale 1" = 20' shall be submitted to the Board of Health showing the following:

1. The Lot being built on;
2. The structure and Plant as it was placed on the Lot with the shortest distance from the structure to the sideline at the road and the shortest distance from the Structure to the Lot line;
3. At least two tie distances shall be shown to the covers of the septic tank, distribution box and leaching structures from foundation corners. A distance from a foundation corner to where the building sewer leaves the foundation shall be shown;
4. Elevations of the top of the concrete foundation cellar floor, garage floor, if any;
5. Plans to scale and stamped by the Designing Engineer;
6. The location of all underground utilities;
7. The finished grading on the Lot;

8. The topography (in two-foot contours) of the Lot.

When all of the following have been satisfied, the Executive Health Officer will certify completion of the system by signing a Certificate of Compliance:

1. All Inspections have been made; and
2. A Certificate of Construction has been signed by the Designing Engineer; and
3. The required As-Built Plans have been submitted.

#### IX. SUBDIVISION PLANS

Any person who submits a Preliminary Plan of Subdivision to the Planning Board shall also submit to the Board the following:

#### IX. SUBDIVISION PLANS (condition)

##### A. Preliminary Plans

1. A copy of the plan of the subdivision as submitted to the Planning Board along with the required fee;
2. A narrative description of the proposed use to be made of the property, including without limitation the maximum square footage of Structures proposed to be constructed, the possible uses for which the Structures may be used, and a reasonable estimate of the maximum daily sewage flow generated from the subdivision based on the square footage and use to be made of such Structures;
3. Copies of any and all applications, studies and reports filed with any federal, state or local governmental authority regulating any environmental aspect of the subdivision (herein a "Filing") together with any comment, response, communication or Permit issued by any such authority on such Filing together with a narrative of the status of each such pending Filing and a narrative describing any other Filing needed to Complete construction of the improvements in the subdivision. If a Final E.I.R. requires a Plant to be built, evidence by the Applicant that the land subdivided will remain in a common ownership must be submitted;
4. **EITHER** (a) a letter of commitment satisfactory to the Board that sewerage the Lots in the subdivision has been approved by the Sewer Commission of the Town of Hingham and by the Department of Environmental Protection, Division

of Water Pollution Control, and the location and results of deep observation holes to determine the Maximum Groundwater Elevation at a minimum frequency of one per Lot **OR** (b) the location and results of percolation tests, deep observation holes to determine Maximum Groundwater Elevation, soil logs and soil observations to a depth of ten (10) feet at a minimum frequency of one (1) per Lot. Such tests shall be performed and reported on by a Registered Professional Engineer skilled in sewage disposal;

5. Evidence satisfactory to the Board that each Lot has an acceptable source of water supply. This evidence shall be either in the form of a letter of commitment from the Massachusetts American Water Company agreeing to furnish water service to the Lots or a hydrogeological evaluation of the subdivision performed by a qualified engineer or geologist which proves to the reasonable satisfaction of the Board that a potable source of water sufficient in quantity and quality for each Lot in the subdivision exists;
6. The location of any existing Sewage Disposal Systems within fifty (50) feet of any proposed Drain in the subdivision.

#### IX. SUBDIVISION PLANS (continued)

Upon examination of the preliminary plan, test results, soils observations and an on-site inspection, the Board may approve such preliminary plan, may approve it with modifications or may disapprove such preliminary plan. All approvals or disapprovals shall be transmitted to the Planning Board of the Town of Hingham.

#### B. Definitive Plans

Any person who submits a Definitive Plan of a subdivision to the Planning Board shall also submit a Definitive Plan to the Board along with the required fee. To be considered Complete, the plan must include the following:

1. A final copy of the Definitive Plan of the subdivision as submitted to the Planning Board;
2. All materials required for a Preliminary Plan;
3. The location and elevation of all drainage basins and pipes showing how the surface drainage is to be handled, including streams, ponds, wetlands, open or subsurface Drains, outcroppings of ledge and other topographical features needed to evaluate the site. If leaching catch basins are proposed, percolation test results in the vicinity of the catch basins as well as Maximum Groundwater Elevation results must be shown.

Upon examination of the plans, test results and engineer's report, the Board shall determine whether the plan submitted complies with the provisions of Title 5 of the State Environmental

Code and with these Regulations. The Board may approve the Definitive Plan, approve the Definitive Plan with modifications or may disapprove such Definitive Plan. In the case of disapproval, the Board shall state its reasons. All approvals or disapprovals shall be transmitted to the Planning Board of the Town of Hingham.

Approval with or without modification by the Board of the subdivision plan shall in no way supersede the necessary individual Lot approval as required pursuant to these Regulations and Title 5 of the State Environmental Code and in no way shall supersede or impinge upon the responsibility or duties of the Hingham Planning Board in accordance with the Subdivision Control Law and regulations enacted pursuant thereto.

The Board may vary the application of any provision of these Regulations (except where expressly forbidden elsewhere herein and/or by applicable laws or regulations of the Commonwealth of Massachusetts) with respect to any particular case when, in its opinion: (1.) the enforcement thereof would do manifest injustice and (2.) the Applicant has proved that the same degree of environmental protection required under these Regulations can be achieved without strict application of the particular provision. Any Variance granted by the Board shall be in writing. Any denial of a Variance shall also be in writing and will contain a brief statement of the reasons for the denial. A copy of each Variance shall be on file and a copy shall be available to the public at all reasonable hours in the office of the Board of Health while it is in effect.

#### X. VARIANCES

Every request for a Variance shall be made in writing on the form provided and filed with the Board and shall cite the specific variance sought and the reasons therefor. Such request shall be accompanied by a filing fee payable to the Town of Hingham. In addition, the Board may require Additional Studies in connection with the consideration of any variance request and the cost of consultant review of same shall be paid by the Applicant before any decision is issued. The Applicant shall give notice, in such form as may be determined by the Board, to all Abutters and owners of land within two hundred fifty (250) feet of the Applicant's land, the same to be certified mail and at the expense of the Applicant; and the Applicant shall furnish to the Board proof that such mailing was made not less than ten (10) days before the date of the Board's meeting at which the Variance request shall be listed on its posted agenda.

Request for Variance may be acted upon by a majority vote of the members of the Board. The Applicant shall be furnished a copy of the action of the Board on any application for a Variance. Any Variance granted may be made subject to such qualifications, revocation, suspension or expiration as the Board may impose in its written grant.

Any Variance or other modification authorized by the Board may otherwise be revoked, modified or suspended, in whole or in part, only after the holder thereof has been notified in writing and has been given an opportunity to be heard, in conformity with the requirements of Regulation 11.07 and 11.08, title 1 of the State Environmental Code, provided however, that upon and after receipt of such notice by the holder, no work shall be performed under the Variance or other modification until final disposition of the matter in issue.

XI. EXPEDITED PROCEDURE FOR REPAIRS OF A FAILED SEWAGE DISPOSAL SYSTEM REQUIRING A VARIANCE FROM THESE REGULATIONS

In situations involving applications for a Disposal Works Construction Permit to Repair a Failed Sewage Disposal System which does not involve increased flow or necessitate a Variance from the provisions of Title 5, but which does require a Variance from these Regulations, the Applicant may in his application elect to proceed under this expedited procedure:

1. The Applicant shall file in the health office an Application for a Disposal Works Construction Permit and request for a Variance on the forms prescribed by the Board and comply with the provisions of Section IV hereof;
2. The Applicant shall give notice to Abutters as provided in Section X hereof except that, if the location of the proposed Sewage Disposal System is in the same area on the Lot as the Failed Sewage Disposal System, notice to Abutters need not be given. The notice shall state that an application for a Disposal Works Construction Permit has been made by the Applicant, that a variance from these Regulations is necessary, that the Applicant is proceeding under this expedited procedure and that the Abutter has Fourteen (14) days in which to provide the Executive Health Officer with either written comments or request a public hearing before the Executive Health Officer relative to the requested Variance and application;

XI. EXPEDITED PROCEDURE FOR REPAIRS OF A FAILED SEWAGE DISPOSAL SYSTEM REQUIRING A VARIANCE FROM THESE REGULATIONS (continued)

3. The Applicant in its application may elect to proceed on the written record as submitted to the health office or may request a hearing before the Executive Health Officer;
4. If neither the Applicant nor an Abutter has requested a hearing, the Executive Health Officer shall review the file and either grant the Permit (including, as applicable, any necessary Variances from these Regulations and impose such conditions on the Permit as he deems appropriate) or refer the matter to the Board which shall then schedule a public hearing on the Variance request and proceed under Section X of these Regulations;
5. Any person aggrieved by a decision of the Executive Health Officer to grant a Permit under this Section may within ten (10) days of the granting of such Permit appeal to the Board which shall then review the record and in its discretion take additional evidence.

XII. REQUIREMENTS FOR LICENSED DISPOSAL WORKS INSTALLERS (DWI)

No person shall engage in the construction, alteration, installation, Repair or do any work upon a Sewage Disposal System or on the leaching Facility of a Plant without first obtaining a Disposal Works Installer's Permit from the Board of Health. All Applicants for a Disposal



Works Installer's Permit must take an examination at the Health Department office. Applicants must achieve a grade of at least 75 on this examination in order to obtain a Disposal Works Installer's Permit. Permit holders may not subcontract out the construction, alteration, installation or Repair work on a Sewage Disposal system or Plant unless the subcontractor also has passed the examination and has received a Disposal Works Installer's Permit. The Permit shall expire annually on December 31. There will be a fee charged each year to receive or renew a Permit. The Board may revoke or fail to renew an individual's Disposal Work Installer's Permit if that individual, although hired to do so, has by his actions willfully refused to carry out the work on any Sewage Disposal System or Plant that is specified in the plans approved by the Executive Health Officer or the Board of Health, or proceeded in violation of an order issued by the Executive health Officer or the Board, or installed a Sewage Disposal System or Plant Leaching Facility without a Disposal Works Construction Permit having been issued.

XIII. INSPECTION OF SEWAGE DISPOSAL SYSTEM AT THE TIME OF TRANSFER OF TITLE

Upon Transfer of Title of any property within the Town of Hingham having a Structure utilizing a Sewage Disposal system, the Seller shall, at the execution of the purchase and sale agreement or within a reasonable time thereafter, but in no case in less than 24 hours prior to closing:

XIII. INSPECTION OF SEWAGE DISPOSAL SYSTEM AT THE TIME OF TRANSFER OF TITLE (continued)

1. Disclose to the Buyer in writing the **complete** report of an inspection made of the Sewage Disposal System by an approved Department of Environmental Protection "System Inspector" made in accordance with the provisions of Title 5 310 CMR 15.301 - 15.303 of the State Environmental Code. As part of all system inspections in the Town of Hingham the following is required:
  - (a) Septic tanks, distribution boxes, cesspools, overflow pits, pump chambers, sewer manholes must be located and shown on a plan by a minimum of two swing ties from permanent above ground structures. All cesspools and septic tanks must be pumped during the time of inspection in the presence of a System Inspector. Pumping should occur after all required effluent levels have been observed;
  - (b) Maximum Groundwater elevations must be determined by an approved Soil Evaluator (as defined in Title 5 310 CMR 15.022 of the State Environmental Code) utilizing soil mottling criteria and other approved Title 5 methods and historical data.
2. The approved Department of Environmental Protection "System Inspector" shall file with the Board of Health within 30 days of the inspection the approved D.E.P.

inspection form as required in Title 5 15.302.

3. A Sewage Disposal System shall be inspected at or within twelve months prior to the time of transfer of title to the Structure served by the Sewage Disposal System.

#### XIV APPEAL

Appeal shall be made in accordance with applicable State statutes.

**DISCLAIMER:**

By the issuance of any Permit under these Regulations or approvals, pursuant to these Regulations, the Board of Health of the Town of Hingham or any agent, servant, or employee of it or any person acting for it, does not assume any responsibility for the successful operation of any Sewage Disposal System or Plant. No liability is incurred by the Town by reason of approval for construction of individual Sewage Disposal system or Plant plans. Approval by the Board of Health of individual Sewage Disposal System (SDS) or Plant is based on plans and specifications supplied by the Applicant. No guarantee is intended or implied by reason of any advice given by the Board of Health or representative thereof.

**SEVERABILITY:**

Should any section, paragraph, sentence, clause or phrase of these Rules and Regulations be declared unconstitutional or invalid for any reason, the remainder of said Rules and Regulations shall not be affected thereby.

These regulations shall be effective as of April 27, 1995 by vote of the Board of Health of April 20, 1995 unless otherwise noted.

These regulations shall be effective as of June 1, 1996 by vote of the Board of Health of May 22, 1996 unless otherwise noted.

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Michele Wallace, P.T.  
Chairman

Members:

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M. Anita Barry, M.D., M.P.H.

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Attorney Michael Holden

Section II, Section IV.15, Section VI.1, Section VI.6, Section VII.4.A. and Section XIII.

These regulations shall be effective as of July 1, 1997 by vote of the Board of Health of June 18, 1997 unless otherwise noted.

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Michele Wallace, P.T.  
Chairman

Members:

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M. Anita Barry, M.D., M.P.H.

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Attorney Michael Holden

Section XIII (1)(b).

These regulations shall be effective as of October 15, 1998 by vote of the Board of Health of September 29, 1998 in the interest of preservation of the public health unless otherwise noted.

Table of Contents; Section II.14; Section IV.3, 10, 12; Section V; Section VI. 6,8,10,17,21; Section XIII and Section XIV.